

Attachment 2: Foodborne Disease

**Section:1 ENHANCE CAPACITY FOR INVESTIGATION, CONTROL AND  
REPORTING OF FOODBORNE DISEASE OUTBREAKS**

Subsection: 2

**OUTBREAK INVESTIGATIONS**

**A. Personnel - \$52,630**

Foodborne Epidemiologist (1.0 FTE, 12 months) (Harris) \$52,630  
Ms. Harris is assigned to the Food Protection Program and works closely with the Working Group on Foodborne Illness Control. Ms. Harris oversees the implementation of the Foodborne Illness Investigation training program and the trainings related to risk-based inspections, working closely with local boards of health to improve their reporting and investigation of foodborne illness outbreaks and responsible for updating the Department's web site with pertinent foodborne illness information.

**B. Fringe Benefits - \$13,676**

Fringe benefits applicable to direct salaries and wages are treated as direct costs. The fringe benefit rate is 25.81% plus Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

**C. Travel - \$3,185**

In State \$1,670

Funding is requested to travel to local health departments, foodborne illness trainings, and foodborne illness investigations throughout Massachusetts: 3,500 miles at \$.45/mile = \$1,575

Conference: Annual Massachusetts Health Officers Association Conference in Hyannis, MA (1 x person registration fee: \$95.00)

Out of State \$1,515

Outbreaknet Meeting (date and location TBD)

CDC Sponsored Meeting \$1,515

Airfare 1 Epidemiologist x r/t airfare \$350

Conference fee \$395

4 nights lodging x 1 person/\$150/night \$600

Ground transportation costs \$100

4 day per diem 1 person x \$17.50/day \$70

**D. Equipment - \$0**

**E. Supplies - \$2,500**

General Office Supplies - \$2,500

Funding is requested for the purchase of general office supplies: paper, postage, folders, envelopes, etc.

**F. Contractual - \$0**

**G. Construction - \$0**

**H. Other - \$2,298**

Printing - \$1,200

Funding is requested for the printing and binding of training materials for six Foodborne Illness Investigation courses for approximately 100 participants (100 manuals x \$12.00/each).

Information Technology Support charge back: \$1,098 – A cost assessment has been determined for support of computer equipment/rental/internet access/software support and technical support for each staff computer and dedicated laboratory computer equipment. The cost of each computer support is \$1,098 per staff or dedicated laboratory equipment. This cost is in lieu of computer equipment request.

**I. Total Direct Cost - \$74,289**

**J. Indirect Costs - \$8,000**

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages

**TOTAL: OUTBREAK INVESTIGATIONS - \$82,289**

Attachment 2: Foodborne Disease

**Section:1 ENHANCE CAPACITY FOR INVESTIGATION, CONTROL AND  
REPORTING OF FOODBORNE DISEASE OUTBREAKS**

Subsection: 3

**COLLECTION AND TRANSPORT**

**A. Personnel - \$0**

**B. Fringe Benefits - \$0**

**C. Travel - \$0**

**D. Equipment - \$0**

**E. Supplies - \$4,720**

Specimen Collection Materials \$1,200

Collection containers, mailing tubes, inserts

Specimen Collection Training Materials \$2,520

Binders, dividers, stick-it pads, highlighters, laminating pouches

Specimen Collection Educational Materials \$1,000

Posters including packaging and shipping

**F. Contractual - \$4,560**

Funding is requested for the collection and transport of specimens.

*Name of Contractor: Depending on location of specimen one of these 5 contractors will be utilized:*

Federal Express, Greenbelt MD

USA Couriers, Boston MA

Millers Express, No. Easton MA

Advantage Delivery Services, Rockland, MA

City Express, Boston MA

*Method of Selection:* Massachusetts maintains an existing list of master service agreements (MSA) that have been competitively procured in accordance with Massachusetts Law. The contractors listed above have been awarded a Master Service Agreement and will be utilized for collection and transport of specimens.

*Period of Performance:* January 1, 2008 –December 31, 2008 (one year)

*Scope of work:* The contractor will pick up specimens from hospital or laboratories and deliver to the State Laboratory in a timely manner.

*Method of Accountability:* The laboratory supervisor will oversee the contractor.

*Budget:* \$4,560

Flat rate round trip to Berkshires (Western MA): \$284

Flat rate round trip to Worcester (Central MA): \$95  
Average: \$190 per trip - 12 outbreaks x 2 trips per outbreak x \$190 per trip =  
\$4,560

**G. Construction - \$0**

**H. Other - \$720**

Postage – \$720

Funding is requested overnight mail services to ensure timely delivery of collection kits and samples. (10 lb package shipped by overnight mail = \$15.00 each way = \$30.00 for each mail-out/mail-in service 12 outbreaks x 2 mail-out/mail-in services per outbreaks x \$30 per service = \$720.00)

**I. Total Direct Cost - \$10,000**

**J. Indirect Costs \$0**

**TOTAL – FOODBORNE DISEASE COLLECTION AND TRANSPORT \$10,000**

Attachment 2: Foodborne Disease

**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR  
EMERGING FOODBORNE PATHOGENS**

Subsection: A

**PULSENET LABORATORY**

**A. Personnel - \$51,067**

PFGE Bacteriologist II (1.0 FTE, 12 months) (Sennott) \$51,067

Ms. Sennott will perform functions performed in our PFGE Laboratory as described in the reapplication. Ms. Sennott coordinates PFGE activities, including PFGE analysis and maintenance of PFGE databases.

**B. Fringe Benefits - \$13,272**

Fringe benefits applicable to direct salaries and wages are treated as direct costs. The fringe benefit rate is 25.81% Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

**C. Travel - \$2,490**

Out of state travel:

Funding is requested for 1 laboratory and 1 epidemiology staff member to travel to the Annual PulseNet meeting in St. Louis, MO, 2008.

Airfare \$500 x 2	\$1,000
Registration \$150 x 2	\$300
Hotel \$150 x 3 nights x 2	\$900
Meals 4day x 17.50 x 2 persons	\$140
Ground transportation x 2	\$150

**D. Equipment - \$0**

**E. Supplies - \$53,500**

Lab supplies - \$52,500 Funding is requested to perform 2300 tests, including restriction enzymes \$22,000, agarose \$4,500, media \$3,500, reagents \$4,500, tubes \$4,000, disposables \$10,000 (tips, swabs, loops needles etc); gel supplies \$1,000; reference books and materials \$500; misc. supplies \$2,500

General Office Supplies - \$1,000 Funding is requested for the office supplies necessary to the running of the PFGE Lab including paper, ink, permanent markers, binders, disks, pens, etc.

**F. Contractual - \$4,000**

Annual maintenance for 4 CHEF PFGE mappers – equipment used daily for Pulse Net activities.

*Name of contractor:* Bio-Rad Corporation, Hercules, CA

*Method of selection:* The purchase of the PFGE laboratory equipment was competitively procured in previous cooperative agreement years.

The manufacture of this DNA fingerprinting equipment is the only source of maintenance.

*Period of performance:* January 1, 2008 – December 31, 2008 (one year).

*Scope of Work:* Inspection of equipment, determine failure, repair

*Method of Accountability:* Contractor will work at the direction of the laboratory supervisor

*Budget:* \$4,000 (4 machines @\$1,000 ea.)

**G. Construction - \$0**

**H. Other - \$1,098**

Information Technology Support charge back: \$1,098 – A cost assessment has been determined for support of computer equipment/rental/internet access/software and technical support for each staff computer and dedicated laboratory computer equipment. The cost of each computer support is \$1,098 per staff or dedicated laboratory equipment. This cost is in lieu of computer equipment request.

**I. Total Direct Cost - \$125,427**

**J. Indirect Costs - \$7,762**

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages

**TOTAL PULSENET LABORATORY - \$133,190**

Attachment 2: Foodborne Disease

**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR  
EMERGING FOODBORNE PATHOGENS**

Subsection: A.1

**PULSENET AREA LABORATORY**

**A. Personnel - \$50,796**

PFGE Bacteriologist III (1.0 FTE, 12 months) (Watarida)	\$50,796
Ms. Watarida supervises all functions performed in PFGE lab as described in application.	
Coordinates susceptibility testing of relevant PFGE isolates.	

**B. Fringe Benefits - \$13,202**

Fringe benefits applicable to direct salaries and wages are treated as direct costs. The fringe benefit rate is 25.81% salaries and wages for the above-listed positions plus Universal Health chargeback of \$17/person/year and payroll chargeback of \$75/person/year.

**C. Travel - \$4,480**

Area Lab Site Visits \$4,480	
Approximately 6,666 miles x \$0.45/mile	\$3,000
8 nights lodging x 1 person x \$150 night	\$1,200
16 day per diem x 1 person x \$17.50/day	\$280

**D. Equipment - \$0**

**E. Supplies - \$17,750**

Lab supplies: \$16,250  
Funds are requested to perform PFGE for ongoing and expanded activities as described above, as well as to provide supplies as needed to all labs within the Northeast Region., including restriction enzymes \$5,000, agarose \$1,500, media \$1,000, reagents \$750, disposables \$2,000, gel supplies \$1,000; misc. other supplies as needed \$5,000.

Office Supplies: \$1,500

Funding is requested for general office supplies.

**F. Contractual - \$0**

**G. Construction - \$0**

**H. Other - \$25,196**

IT support \$2,196

Funding is requested for Information Technology chargeback for personnel (a)computer (Watarida) and (b) laptop computer used in making area site visits. Information Technology Support charge back: – A cost assessment of \$1,098 has been determined for support of computer equipment/rental/internet access/software and technical support for each staff computer and dedicated laboratory computer equipment. The cost of each computer support is \$1,098 per staff or dedicated laboratory equipment. This cost is in lieu of computer equipment request.

Software- \$23,000

Funding is requested for an additional 2-user BioNumerics license that would allow for completion of several data mining projects (currently planned for the Northeast Region) without interfering with routine PFGE lab work.

**I. Total Direct Cost - \$111,424**

**J. Indirect Costs - \$7,721**

Indirect charges are based upon the current Department of Health and Human Services and Commonwealth of Massachusetts negotiated indirect cost rate of 15.2% of salaries and wages.

**TOTAL - PULSENET AREA LABORATORY \$119,145**

Attachment 2: Foodborne Disease

**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR  
EMERGING FOODBORNE PATHOGENS**

Subsection: B

**SURVEILLANCE OF SHIGA TOXIN-PRODUCING E. coli**

**A. Personnel - \$0**

**B. Fringe Benefits - \$0**

**C. Travel - \$0**

**D. Equipment \$0**

**E. Supplies - \$15,500**

Laboratory Supplies: Shiga toxin EIA kits \$8000 RIM latex test kits \$3000; Primers and probes for PCR identification of Stx 1 and Stx 2 \$2000; Triple layer packaging materials for delivery of Shiga-toxin producing E. coli (a Category A infectious substance) from clinical laboratories to State Laboratory \$2500.

**F. Contractual - \$5,000**

Funds for delivery of Shiga-toxin producing E. coli (a Category A infectious substance) from clinical laboratories to MA State Laboratory by Category A courier \$5000.

*Name of Contractor: Depending on location of specimen one of these 5 contractors will be utilized:*

Federal Express, Greenbelt MD

USA Couriers, Boston MA

Millers Express, No. Easton MA

Advantage Delivery Services, Rockland, MA

City Express, Boston MA

*Method of Selection:* Massachusetts maintains an existing list of master service agreements (MSA) that have been competitively procured in accordance with Massachusetts Law. The contractors listed above have been awarded a Master Service Agreement and will be utilized for collection and transport of specimens.

*Period of Performance:* January 1, 2008 –December 31, 2008 (one year)

*Scope of work:* The contractor will pick up specimens from hospital or laboratories and deliver to the State Laboratory in a timely manner.

*Method of Accountability:* The laboratory supervisor will oversee the contractor.

*Budget:* \$5,000

**G. Construction - \$0**

**H. Other - \$0**

**I. Total Direct Cost - \$20,500**

**J. Indirect Costs - \$0**

**TOTAL SURVEILLANCE OF SHIGA TOXIN-PRODUCING E. coli \$20,500**

SHIGA TOXIN-PRODUCING E. coli

Attachment 2: Foodborne Disease

**Section 2: IMPROVE LABORATORY-BASED SURVEILLANCE FOR  
EMERGING FOODBORNE PATHOGENS**

Subsection: E

**NARMS**

**A. Personnel - \$0**

**B. Fringe Benefits - \$0**

**C. Travel - \$0**

**D. Equipment - \$0**

**E. Supplies – \$6,500**

Antisera for identification of *Salmonella* species, *Shigella* species, and *E. coli* O157:H7 \$2,500, Selective media \$1,300; Miscellaneous shipping supplies (parafilm, tape, labeling stickers) \$1,700; Triple layer packaging materials for quarterly shipment of Shiga-toxin producing *E. coli* (a Category A infectious substance) from State Laboratory to CDC \$1,000.

**F. Contractual - \$1,500**

Funds for delivery of Shiga-toxin producing *E. coli* (a Category A infectious substance) from MA State Laboratory to CDC by Category A courier \$1,500.

*Name of Contractor: Depending on location of specimen one of these 5 contractors will be utilized:*

Federal Express, Greenbelt MD

USA Couriers, Boston MA

Millers Express, No. Easton MA

Advantage Delivery Services, Rockland, MA

City Express, Boston MA

*Method of Selection:* Massachusetts maintains an existing list of master service agreements (MSA) that have been competitively procured in accordance with Massachusetts Law. The contractors listed above have been awarded a Master Service Agreement and will be utilized for collection and transport of specimens.

*Period of Performance:* January 1, 2008 –December 31, 2008 (one year)

*Scope of work:* The contractor will pick up specimens from hospital or laboratories and deliver to the State Laboratory in a timely manner.

*Method of Accountability:* The laboratory supervisor will oversee the contractor.

*Budget:* \$1,500

**G. Construction - \$0**

**H. Other - \$0**

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Massachusetts  
September 14, 2007

**I. Total Direct Cost - \$8,000**

**J. Indirect Costs - \$0**

**TOTAL NARMS \$8,000**

DPF